

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: PORTFOLIO

Report Number: P250224

Luminaire Tested: **LD8B200D010 ER8B200835 8LBSW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250224
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13955)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B200D010 ER8B200835 8LBSW0WH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 3500 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22047.0 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.15
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

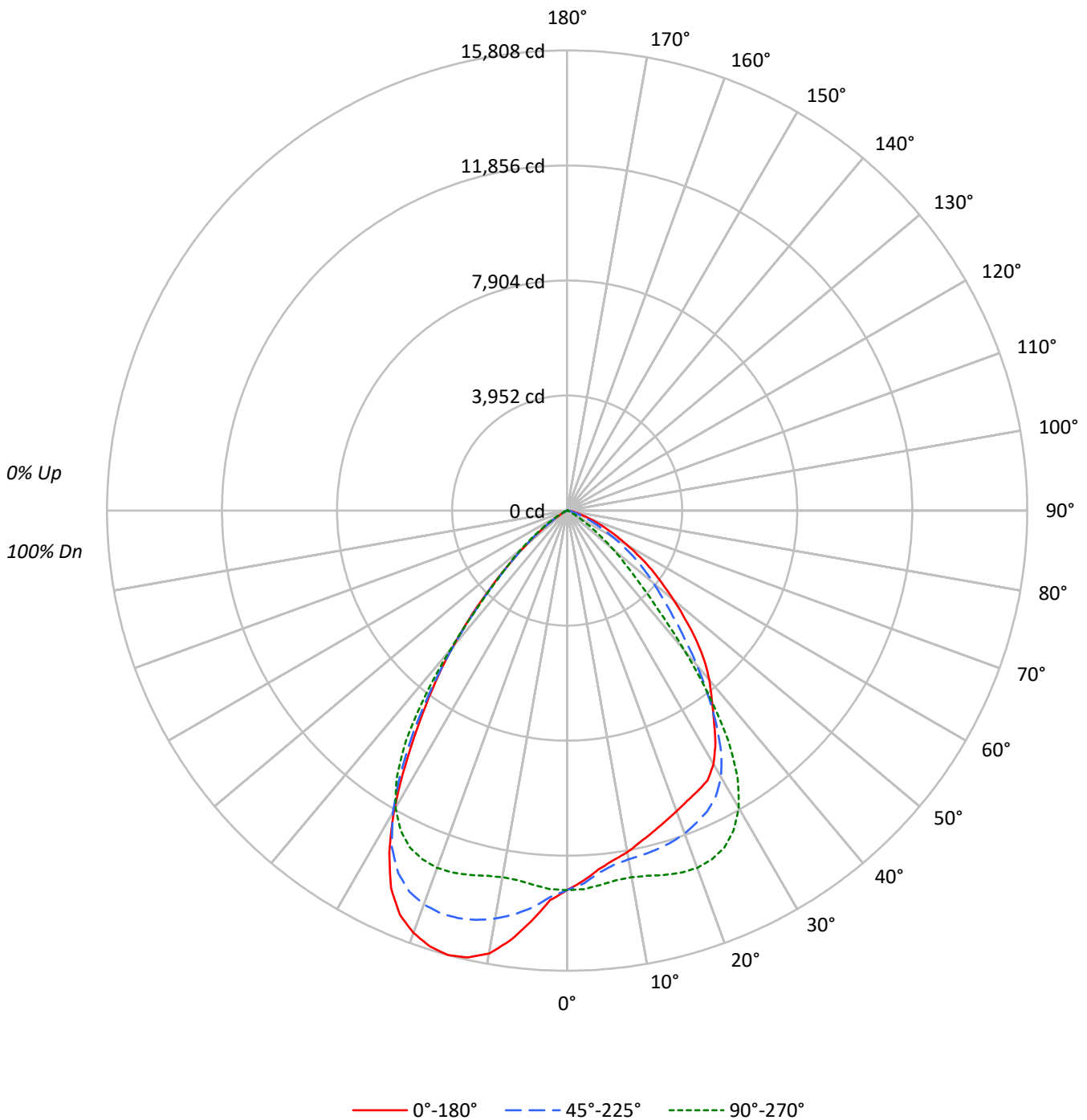
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	112	109	106	103	110	107	104	102	103	100	98	99	97	96	95	94	93	91					91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82					82			
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73					73			
4	92	83	76	71	90	81	75	70	79	74	70	77	72	69	75	71	68	66					66			
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	69	65	61	60					60			
6	80	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54					54			
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49					49			
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45					45			
9	67	55	48	44	66	55	48	44	54	48	43	53	47	43	52	47	43	42					42			
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	43	40	38					38			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	401995	401995	401995
5°	382980	399760	438233
10°	373101	400377	483733
15°	364640	413647	504663
20°	360627	428594	506557
25°	361472	434648	486875
30°	358118	419721	423410
35°	330915	363244	331367
40°	305789	251841	245714
45°	272295	151960	157002
50°	229113	97903	88846
55°	190611	53708	40617
60°	148779	23288	12772
65°	109790	11565	6224
70°	76347	7141	2732
75°	46454	1465	0
80°	33527	2184	0
85°	21547	2123	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1253.2	5.7
10°-20°	3750.8	17.0
20°-30°	5744.0	26.1
30°-40°	5631.0	25.5
40°-50°	3391.0	15.4
50°-60°	1560.8	7.1
60°-70°	548.3	2.5
70°-80°	143.4	0.7
80°-90°	24.4	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	10748.1	48.8
0°-40°	16379.1	74.3
0°-60°	21330.9	96.8
0°-90°	22047.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	22047.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	13036	13036	13036	13036	13036	
5°	12372	12488	12915	13688	14158	###
15°	11422	12038	12957	14492	15808	3227
25°	10624	11392	12775	13737	14310	4893
35°	8791	8912	9649	9095	8803	5506
45°	6244	5142	3485	3509	3600	4788
55°	3546	2808	999	786	756	3163
65°	1505	1042	158	79	85	1533
75°	390	225	12	0	0	473
85°	61	30	6	0	0	84
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	13036.4	13036.4	13036.4	13036.4	13036.4	13036.4	13036.4	13036.4	13036.4	13036.4	13036.4
2.5°	12731.8	12744.1	12744.1	12744.1	12768.4	12774.7	12768.4	12774.7	12786.7	12829.3	12847.6
5°	12372.5	12354.2	12366.4	12360.2	12390.8	12409.1	12396.8	12415.1	12457.7	12488.3	12518.7
7.5°	12116.7	12116.7	12116.7	12128.7	12147.0	12183.7	12177.6	12189.7	12232.3	12274.9	12317.6
10°	11915.6	11909.6	11909.6	11939.9	11964.3	12006.9	12019.2	12055.8	12110.4	12165.4	12214.0
12.5°	11653.6	11659.9	11690.2	11720.8	11775.4	11842.4	11879.0	11927.9	12013.2	12104.4	12159.3
15°	11422.1	11428.2	11452.7	11513.4	11580.6	11659.9	11738.8	11818.1	11921.6	12037.5	12135.0
17.5°	11196.7	11202.7	11221.1	11288.2	11373.5	11477.1	11568.3	11671.9	11806.0	11939.9	12061.8
20°	10989.6	10983.6	11013.9	11074.9	11184.7	11282.0	11373.5	11495.4	11641.5	11806.0	11946.0
22.5°	10788.5	10788.5	10819.1	10880.0	10977.6	11074.9	11172.4	11300.3	11446.5	11604.9	11769.4
25°	10624.0	10618.0	10660.6	10691.2	10764.2	10861.7	10965.3	11068.8	11215.0	11391.8	11550.0
27.5°	10447.5	10441.5	10447.5	10484.1	10551.1	10624.0	10703.3	10794.8	10916.6	11062.8	11215.0
30°	10057.6	10063.6	10063.6	10094.2	10130.8	10209.8	10252.4	10343.9	10453.5	10575.4	10709.5
32.5°	9478.9	9484.9	9484.9	9497.2	9527.5	9564.1	9600.7	9667.7	9752.9	9856.5	9978.4
35°	8790.6	8790.6	8784.3	8790.6	8808.9	8808.9	8839.2	8808.9	8851.5	8912.4	9003.7
37.5°	8157.0	8144.7	8132.6	8120.3	8102.0	8071.7	8029.1	7955.9	7937.6	7913.2	7919.3
40°	7596.5	7590.5	7553.9	7523.3	7462.4	7389.4	7285.9	7158.0	7054.4	6932.6	6829.0
42.5°	6975.2	6968.9	6938.6	6883.7	6816.7	6707.2	6542.7	6372.2	6165.0	5982.3	5793.4
45°	6244.0	6262.3	6219.7	6158.8	6079.5	5976.0	5793.4	5586.1	5379.0	5141.5	4903.8
47.5°	5482.5	5476.5	5446.2	5409.6	5342.6	5239.0	5117.2	4891.8	4672.4	4453.2	4209.5
50°	4775.9	4751.6	4739.3	4703.0	4660.3	4575.1	4446.9	4264.2	4069.3	3862.2	3636.8
52.5°	4105.9	4105.9	4075.3	4051.0	4014.4	3947.5	3837.9	3691.7	3527.2	3332.1	3094.7
55°	3545.5	3533.2	3502.9	3472.3	3435.7	3393.1	3295.8	3173.9	2997.1	2808.3	2601.2
57.5°	2948.5	2942.2	2930.2	2893.6	2875.3	2832.7	2723.1	2601.2	2449.0	2284.5	2113.8
60°	2412.4	2388.1	2363.5	2339.2	2308.9	2266.2	2193.0	2089.5	1961.6	1815.4	1644.9
62.5°	1931.2	1967.6	1894.6	1894.6	1833.7	1797.1	1730.1	1669.2	1535.1	1401.2	1255.0
65°	1504.7	1504.7	1474.1	1449.8	1413.2	1370.6	1303.6	1242.7	1145.1	1041.6	938.0
67.5°	1151.4	1145.1	1114.8	1090.5	1059.9	1035.6	986.9	913.7	840.7	755.5	670.0
70°	846.8	840.7	834.5	791.8	767.5	737.2	700.6	651.9	597.0	536.1	456.9
72.5°	609.1	609.1	591.0	572.7	548.4	523.8	487.4	456.9	408.2	365.6	310.7
75°	389.9	383.9	383.9	353.3	353.3	316.7	292.4	274.1	249.7	225.4	176.8
77.5°	280.3	274.1	268.0	255.8	243.7	231.4	213.1	188.8	170.5	146.2	127.9
80°	188.8	176.8	170.5	170.5	152.2	146.2	152.2	115.8	109.6	91.3	79.2
82.5°	115.8	115.8	109.6	109.6	103.6	97.5	79.2	79.2	73.2	66.9	54.9
85°	60.9	79.2	54.9	60.9	54.9	60.9	54.9	42.6	36.6	30.3	30.3
87.5°	36.6	24.3	24.3	36.6	30.3	24.3	24.3	24.3	18.3	12.3	12.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	13036.4	13036.4	13036.4	13036.4	13036.4	13036.4	13036.4	13036.4	13036.4	13036.4	13036.4
2.5°	12835.6	12878.2	12871.9	12926.9	12945.2	12987.8	12987.8	13018.1	13036.4	13079.1	13115.7
5°	12530.9	12597.9	12616.2	12683.1	12738.1	12805.0	12847.6	12914.6	12975.5	13067.0	13152.3
7.5°	12342.1	12396.8	12433.4	12512.6	12573.6	12646.5	12719.7	12811.0	12896.3	13006.1	13128.0
10°	12250.6	12323.8	12378.5	12457.7	12530.9	12610.2	12683.1	12786.7	12884.2	13024.4	13158.3
12.5°	12226.3	12311.5	12378.5	12488.3	12561.3	12646.5	12731.8	12847.6	12951.2	13097.4	13249.8
15°	12226.3	12342.1	12433.4	12555.3	12640.5	12750.1	12841.6	12957.2	13073.0	13225.2	13371.4
17.5°	12202.0	12342.1	12457.7	12597.9	12707.5	12817.3	12932.9	13042.7	13164.3	13310.8	13475.0
20°	12104.4	12281.2	12421.1	12585.6	12701.4	12823.3	12939.1	13060.8	13188.9	13341.1	13481.3
22.5°	11933.9	12141.0	12299.5	12476.0	12610.2	12731.8	12847.6	12969.5	13109.7	13255.8	13402.0
25°	11708.5	11903.3	12074.1	12256.6	12390.8	12524.7	12634.5	12774.7	12902.5	13042.7	13158.3
27.5°	11367.2	11574.3	11738.8	11927.9	12049.5	12177.6	12268.9	12384.8	12506.6	12622.2	12713.7
30°	10855.7	11044.5	11215.0	11385.5	11507.4	11598.9	11696.2	11787.7	11867.0	11946.0	12025.2
32.5°	10106.2	10277.0	10441.5	10599.7	10697.2	10776.5	10849.4	10904.4	10947.0	10989.6	10995.6
35°	9076.9	9216.9	9320.4	9460.6	9552.1	9625.1	9625.1	9649.4	9643.4	9625.1	9606.8
37.5°	7925.5	7980.2	8022.8	8077.7	8083.7	8083.7	8047.4	8016.8	7968.1	7955.9	7919.3
40°	6725.5	6652.2	6597.3	6524.4	6481.7	6390.2	6311.2	6256.3	6177.1	6165.0	6152.8
42.5°	5586.1	5415.6	5263.4	5135.5	4989.3	4861.2	4745.6	4660.3	4599.4	4593.1	4599.4
45°	4660.3	4465.3	4239.8	4063.3	3898.8	3740.4	3588.1	3484.6	3429.7	3417.4	3429.7
47.5°	3959.8	3734.3	3514.9	3313.8	3137.3	2960.5	2808.3	2668.2	2601.2	2582.9	2576.9
50°	3405.4	3173.9	2942.2	2735.1	2540.3	2363.5	2174.7	2040.8	1955.6	1925.0	1900.6
52.5°	2863.2	2656.1	2418.4	2205.3	2010.2	1803.1	1608.3	1455.8	1370.6	1334.2	1309.6
55°	2388.1	2181.0	1961.6	1754.5	1547.3	1340.2	1145.1	999.0	907.7	865.1	834.5
57.5°	1906.7	1711.8	1523.0	1315.9	1145.1	944.3	749.2	621.3	542.1	493.5	469.1
60°	1474.1	1321.9	1157.4	986.9	822.4	658.0	499.5	377.6	316.7	280.3	249.7
62.5°	1114.8	986.9	877.1	730.9	603.0	462.9	341.3	243.7	188.8	158.5	146.2
65°	804.1	706.6	609.1	517.8	426.5	323.0	231.4	158.5	109.6	91.3	85.3
67.5°	572.7	493.5	420.2	359.3	292.4	231.4	164.5	109.6	85.3	73.2	66.9
70°	401.9	341.3	292.4	237.7	194.8	152.2	127.9	79.2	48.6	54.9	42.6
72.5°	268.0	225.4	201.1	164.5	133.9	109.6	79.2	54.9	54.9	42.6	36.6
75°	146.2	133.9	103.6	79.2	66.9	60.9	24.3	12.3	6.0	18.3	6.0
77.5°	103.6	91.3	79.2	66.9	54.9	42.6	24.3	24.3	18.3	24.3	12.3
80°	66.9	54.9	48.6	48.6	30.3	18.3	12.3	12.3	18.3	6.0	6.0
82.5°	42.6	36.6	30.3	30.3	30.3	18.3	18.3	18.3	18.3	12.3	12.3
85°	24.3	18.3	12.3	12.3	6.0	12.3	0.0	6.0	6.0	0.0	0.0
87.5°	12.3	6.0	6.0	6.0	6.0	0.0	0.0	6.0	0.0	6.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	13036.4	13036.4	13036.4	13036.4	13036.4	13036.4	13036.4	13036.4	13036.4	13036.4	13036.4
2.5°	13140.0	13164.3	13194.9	13219.2	13274.1	13286.2	13310.8	13335.1	13353.4	13371.4	13377.7
5°	13225.2	13316.8	13402.0	13493.3	13609.1	13688.4	13779.6	13858.9	13938.1	14005.1	14053.7
7.5°	13249.8	13389.7	13517.9	13676.1	13846.6	13993.0	14145.2	14297.4	14455.9	14577.8	14681.3
10°	13298.5	13469.0	13633.5	13822.3	14041.7	14236.5	14425.3	14626.4	14827.5	14998.0	15150.5
12.5°	13383.7	13572.5	13749.3	13956.4	14181.8	14401.0	14608.1	14833.5	15046.9	15235.7	15406.2
15°	13523.9	13700.4	13871.2	14066.0	14291.4	14492.5	14699.6	14918.8	15132.2	15327.0	15485.5
17.5°	13615.2	13779.6	13950.1	14126.9	14315.7	14498.5	14693.4	14888.4	15083.3	15260.0	15406.2
20°	13615.2	13773.6	13901.5	14060.0	14236.5	14395.0	14553.4	14723.9	14894.5	15040.6	15180.8
22.5°	13505.6	13657.8	13755.3	13877.2	14029.4	14163.5	14248.8	14437.6	14565.5	14693.4	14796.9
25°	13249.8	13359.4	13438.6	13523.9	13645.7	13737.0	13810.2	13919.8	14047.7	14096.6	14169.6
27.5°	12786.7	12865.9	12908.6	12926.9	12987.8	13036.4	13048.7	13097.4	13152.3	13164.3	13194.9
30°	12055.8	12061.8	12043.5	12037.5	12006.9	11970.5	11964.3	11958.2	11933.9	11909.6	11915.6
32.5°	10953.0	10922.7	10849.4	10770.5	10691.2	10606.0	10557.1	10496.1	10459.5	10423.2	10380.6
35°	9527.5	9454.6	9351.0	9253.5	9162.2	9095.0	8985.4	8948.8	8912.4	8863.6	8851.5
37.5°	7852.3	7809.7	7712.1	7639.2	7590.5	7559.9	7505.0	7468.7	7468.7	7450.4	7438.1
40°	6122.2	6110.1	6073.5	6091.8	6067.5	6079.5	6073.5	6061.2	6091.8	6091.8	6104.1
42.5°	4593.1	4599.4	4617.7	4629.7	4666.3	4672.4	4703.0	4703.0	4721.3	4739.3	4751.6
45°	3417.4	3442.0	3442.0	3466.3	3502.9	3508.9	3520.9	3527.2	3539.3	3569.8	3581.9
47.5°	2564.6	2570.6	2570.6	2576.9	2588.9	2601.2	2595.2	2601.2	2619.5	2607.2	2619.5
50°	1894.6	1900.6	1882.3	1864.0	1882.3	1882.3	1876.3	1858.0	1876.3	1852.0	1864.0
52.5°	1291.6	1285.3	1267.0	1273.3	1261.0	1255.0	1255.0	1242.7	1242.7	1242.7	1218.4
55°	816.4	816.4	804.1	804.1	798.1	785.8	779.8	773.5	767.5	761.5	761.5
57.5°	456.9	462.9	444.8	438.6	444.8	438.6	426.5	426.5	426.5	408.2	420.2
60°	249.7	243.7	237.7	231.4	225.4	231.4	231.4	219.4	219.4	219.4	225.4
62.5°	133.9	133.9	127.9	127.9	121.9	121.9	133.9	115.8	121.9	115.8	121.9
65°	73.2	91.3	66.9	66.9	85.3	79.2	73.2	73.2	79.2	66.9	73.2
67.5°	79.2	54.9	48.6	54.9	48.6	48.6	48.6	60.9	54.9	42.6	54.9
70°	36.6	42.6	42.6	30.3	48.6	24.3	42.6	24.3	36.6	30.3	36.6
72.5°	36.6	36.6	36.6	24.3	36.6	24.3	30.3	30.3	24.3	24.3	36.6
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	12.3	12.3	6.0	6.0	6.0	6.0	12.3	12.3	12.3	0.0	6.0
80°	12.3	12.3	0.0	6.0	0.0	0.0	6.0	0.0	6.0	0.0	12.3
82.5°	6.0	12.3	6.0	6.0	12.3	12.3	12.3	6.0	6.0	6.0	6.0
85°	0.0	6.0	0.0	0.0	0.0	0.0	12.3	0.0	0.0	0.0	6.0
87.5°	0.0	6.0	0.0	0.0	0.0	0.0	6.0	6.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P250224

CATALOG NUMBER: LD8B200D010 ER8B200835 8LBSW0WH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	13036.4	13036.4	13036.4	13036.4
2.5°	13383.7	13389.7	13402.0	13396.0
5°	14090.3	14139.2	14163.5	14157.5
7.5°	14754.3	14839.8	14888.4	14888.4
10°	15266.1	15363.6	15436.6	15448.8
12.5°	15540.1	15649.9	15747.5	15722.9
15°	15619.4	15729.2	15826.5	15808.2
17.5°	15528.1	15637.7	15710.9	15698.6
20°	15278.3	15369.6	15442.8	15436.6
22.5°	14888.4	14967.7	15028.6	15022.3
25°	14230.5	14285.4	14334.0	14309.7
27.5°	13219.2	13237.5	13267.9	13231.5
30°	11873.0	11885.0	11897.3	11891.3
32.5°	10362.3	10356.0	10343.9	10331.7
35°	8833.2	8833.2	8839.2	8802.6
37.5°	7444.1	7438.1	7456.4	7438.1
40°	6116.2	6110.1	6134.5	6104.1
42.5°	4769.9	4788.2	4794.2	4794.2
45°	3588.1	3594.2	3600.2	3600.2
47.5°	2619.5	2625.5	2656.1	2619.5
50°	1852.0	1858.0	1864.0	1852.0
52.5°	1224.4	1230.7	1224.4	1206.1
55°	749.2	755.5	755.5	755.5
57.5°	401.9	408.2	408.2	401.9
60°	219.4	213.1	219.4	207.1
62.5°	115.8	127.9	121.9	109.6
65°	73.2	73.2	73.2	85.3
67.5°	60.9	48.6	54.9	42.6
70°	36.6	42.6	42.6	30.3
72.5°	30.3	30.3	30.3	36.6
75°	0.0	0.0	0.0	0.0
77.5°	12.3	12.3	12.3	6.0
80°	6.0	0.0	6.0	0.0
82.5°	6.0	6.0	12.3	6.0
85°	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)